

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A method of expanding tubing, the method comprising:

locating an expansion device on a workstring in tubing to be expanded, wherein the workstring extends from a surface of a wellbore;

creating a vibration with fluid flowing through at least one of the expansion device and the tubing by injecting gas into fluid operatively associated with the tubing;

vibrating at least one of the tubing and the expansion device; and

translating the expansion device relative to the tubing by applying a constant driving force to the expansion device via the workstring thereby expanding the tubing.

2. (Previously Presented) The method of claim 1, wherein the vibration of at least one of the tubing and the expansion device is selected to reduce friction between the tubing and the device.

3. (Previously Presented) The method of claim 2, wherein the vibration of at least one of the expansion device and the tubing is selected to minimize static friction between contacting surfaces of the expansion device and the tubing.

4. (Cancelled)

5. (Previously Presented) The method of claim 1, wherein the driving force remains constant as the expansion device is translated through the tubing.

6. (Previously Presented) The method of claim 1, wherein a direction of the vibration is multi-directional.

7. (Original) The method of claim 1, wherein at least a major portion of the expansion device is subject to vibration.
8. (Withdrawn) The method of claim 1, wherein only a selected portion of the expansion device is subject to vibration.
9. (Previously Presented) The method of claim 1, wherein a surface portion of the expansion device is subject to vibration.
10. (Original) The method of claim 1, wherein portions of the expansion device experience different forms of vibration.
11. (Withdrawn) The method of claim 1, wherein at least a substantial portion of the tubing is vibrated.
12. (Original) The method of claim 1, wherein only a selected portion of the tubing is vibrated.
13. (Original) The method of claim 12, wherein a portion of the tubing adjacent the expansion device is vibrated.
14. (Original) The method of claim 12, wherein a surface portion of the tubing is vibrated.
15. (Original) The method of claim 1, wherein the vibration induces physical movement of at least one of the expansion device and tubing.
16. (Withdrawn) The method of claim 1, wherein the vibration induces contraction and expansion of at least a portion of at least one of the expansion device and the tubing.

17. (Original) The method of claim 1, wherein the vibration takes the form of at least one wave traveling through at least one of the expansion device and the tubing.

18. (Original) The method of claim 1, wherein the vibration is created locally relative to the tubing being expanded.

19. (Withdrawn) The method of claim 1, wherein the vibration is created remotely of a tubing expansion location, and travels to the expansion location.

20. (Original) The method of claim 1, comprising creating the vibration with a moving mass.

21. (Previously Presented) The method of claim 1, comprising providing a varying restriction through at least one of the expansion device and the tubing.

22-25. (Cancelled)

26. (Original) The method of claim 1, comprising coupling a source of vibration to at least one of the expansion device and the tubing.

27. (Withdrawn) The method of claim 26, comprising directly coupling a source of vibration to at least one of the expansion device and the tubing.

28. (Original) The method of claim 26, comprising indirectly coupling a source of vibration to at least one of the expansion device and the tubing.

29. (Previously Presented) The method of claim 1, wherein an amplitude of the vibration is constant.

30. (Previously Presented) The method of claim 1, wherein a frequency of the vibration is constant.

31. (Previously Presented) The method of claim 1, wherein a form of the vibration is constant.
32. (Previously Presented) The method of claim 1, wherein the vibration is greater than 100Hz.
33. (Withdrawn) The method of claim 32, wherein the vibration is ultrasonic.
34. (Previously Presented) The method of claim 1, wherein a form of the vibration is selected such that the vibration is not apparent as physical movement.
35. (Withdrawn) The method of claim 1, wherein the vibration is induced electromagnetically.
36. (Withdrawn) The method of claim 1, wherein the vibration is of relatively low frequency.
37. (Previously Presented) The method of claim 1, wherein the vibration is in a range of 1 to 100 Hz.
38. (Original) The method of claim 1, wherein the vibration comprises a plurality of different components.
39. (Withdrawn) The method of claim 38, wherein the vibration comprises a low frequency component and a high frequency component.
40. (Withdrawn) The method of claim 1, wherein the vibration is selected to coincide with a natural frequency of at least one of the expansion device and the tubing.

41. (Previously Presented) The method of claim 1, wherein the vibration is selected to avoid a natural frequency of the expansion device and/or the tubing.
42. (Cancelled).
43. (Previously Presented) The method of claim 1, wherein the driving force is a mechanical driving force.
44. (Previously Presented) The method of claim 43, wherein the mechanical driving force comprises at least one of a pulling, pushing and torsional force.
45. (Cancelled)
46. (Withdrawn) The method of claim 1, wherein the expansion device is in sliding contact with the tubing.
47. (Cancelled)
48. (Original) The method of claim 1, wherein the expansion device is translated axially relative to the tubing.
49. (Withdrawn) The method of claim 1, wherein the expansion device is translated rotationally relative to the tubing.
50. (Original) The method of claim 1, comprising expanding the tubing by creating localized compressive yield in the tubing wall.
51. (Previously Presented) The method of claim 1, comprising varying a diameter of the expansion device.

52. (Original) The method of claim 1, further comprising creating a pressure differential across a wall of the tubing.

53. (Original) The method of claim 52, wherein the pressure differential applied across the tubing wall is varied.

54. (Original) The method of claim 53, wherein the pressure differential is cycled.

55. (Original) The method of claim 1, comprising isolating a volume of fluid containing the expansion device.

56-81. (Cancelled)

82. (Withdrawn) A method of expanding tubing, the method comprising:
locating an expansion device in tubing to be expanded;
vibrating at least one of the tubing and the expansion device;
translating the expansion device relative to the tubing; and
creating the vibration with an electromagnetic oscillator.

83. (Previously Presented) A method of expanding tubing, the method comprising:

locating an expansion device in tubing to be expanded;
vibrating at least one of the tubing and the expansion device;
translating the expansion device relative to the tubing thereby expanding the tubing; and
creating the vibration by varying a pressure of fluid operatively associated with at least one of the device and the tubing.

84. (Previously Presented) A method of expanding tubing, the method comprising:

locating an expansion device in tubing to be expanded, wherein the expansion device is coupled to a workstring;

vibrating at least one of the tubing and the expansion device;

moving the workstring and the expansion device relative to the tubing thereby expanding the tubing to a larger diameter; and

creating the vibration by creating pressure pulses in a fluid operatively associated with at least one of the device and the tubing.

85. (Currently Amended) A method of expanding tubing, the method comprising:

locating an expansion device on a workstring in tubing to be expanded;

vibrating at least one of the tubing and the expansion device;

pushing the workstring downward to translate the expansion device relative to the tubing thereby expanding the tubing.

86. (Currently Amended) A method of expanding tubing, the method comprising:

locating an expansion device in tubing to be expanded, wherein the expansion device is in rolling contact with the tubing;

vibrating at least one of the tubing and the expansion device; and

translating the expansion device relative to the tubing by applying a constant downward driving force thereby expanding the tubing to a larger diameter.

87-89. (Cancelled).

90. (Previously Presented) The method of claim 1, further comprising inserting the tubing into a wellbore.

91. (Previously Presented) The method of claim 90, wherein inserting the tubing into a wellbore occurs prior to translating the expansion device relative to the tubing.

92. (Withdrawn) The method of claim 82, further comprising inserting the tubing into a wellbore.

93. (Withdrawn) The method of claim 92, wherein inserting the tubing into a wellbore occurs prior to translating the expansion device relative to the tubing.

94. (Withdrawn) The method of claim 93, wherein a driving force is applied to translate the expansion device through the tubing.

95. (Previously Presented) The method of claim 1, wherein the driving force remains constant as the expansion device is translated through the tubing.

96. (Previously Presented) The method of claim 83, further comprising inserting the tubing into a wellbore.

97. (Previously Presented) The method of claim 96, wherein inserting the tubing into a wellbore occurs prior to translating the expansion device relative to the tubing.

98. (Previously Presented) The method of claim 97, wherein a driving force is applied to translate the expansion device through the tubing.

99. (Previously Presented) The method of claim 83, further comprising applying a driving force to translate the expansion device, wherein the driving force remains constant as the expansion device is translated through the tubing.

100. (Previously Presented) The method of claim 84, further comprising inserting the tubing into a wellbore.

101. (Previously Presented) The method of claim 100, wherein inserting the tubing into a wellbore occurs prior to translating the expansion device relative to the tubing.

102. (Cancelled)

103. (Previously Presented) The method of claim 84, wherein the driving force remains constant as the expansion device is translated through the tubing.

104. (Previously Presented) The method of claim 85, further comprising inserting the tubing into a wellbore.

105. (Previously Presented) The method of claim 104, wherein inserting the tubing into a wellbore occurs prior to translating the expansion device relative to the tubing.

106. (Cancelled)

107. (Previously Presented) The method of claim 85, wherein the driving force remains constant as the expansion device is translated through the tubing.

108. (Previously Presented) The method of claim 86, further comprising inserting the tubing into a wellbore.

109. (Previously Presented) The method of claim 108, wherein inserting the tubing into a wellbore occurs prior to translating the expansion device relative to the tubing.

110. (Cancelled)

111. (Previously Presented) The method of claim 86, wherein the driving force remains constant as the expansion device is translated through the tubing.

112. (Previously Presented) The method of claim 1, further comprising plastically deforming the tubing to a larger diameter when expanding the tubing.

113. (Previously Presented) The method of claim 83, further comprising plastically deforming the tubing to a larger diameter when expanding the tubing.

114. (Previously Presented) The method of claim 85, further comprising plastically deforming the tubing to a larger diameter when expanding the tubing.

115. (Previously Presented) A method of expanding tubing, the method comprising:

isолating a portion of the tubing containing an expansion device;

applying a base pressure to the isolated portion of tubing, the base pressure creating a differential pressure across a wall of the tubing below the yield pressure of the tubing wall;

vibrating at least one of the tubing and the expansion device by varying the base pressure; and

expanding the isolated portion of tubing utilizing the expansion device.